

Ser. No.10/083,865
Amdt. dated January 22, 2008
Reply to Office action of September 20, 2007

PU020044

Remarks/Arguments

Claims 1, 8, and 15 have been amended to clarify that the system taught by the present invention is operative to received a first and second satellite signal simultaneously, wherein the first and second satellite signals originate from different satellites. Support for this amendment can be found throughout the specification, and specifically at page 5, last paragraph.

35 U.S.C. §103

Claims 1-5, 7-12, and 14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Krasner (US No. 5,825,327).

It is submitted that none of the cited references, including Krasner, teach or suggest:

" tuning circuitry operative to simultaneously tune a first satellite television signal from a first satellite and a second satellite television signal from a second satellite, said first satellite television signal and said second satellite television signal being received from an outdoor unit of the satellite television ground system via a communications line" as recited by the currently amended claim 1.

Furthermore, none of the cited references teach or suggest:

"obtain carrier frequency offset data of one of the first and second satellite television signals" and "provide the frequency stabilized oscillator signal via **said communications** line to uplink circuitry" as recited by the currently amended claim 1. (emphasis added)

The present invention addresses the problem of errors generated by frequency differences or offsets present in two way satellite communication systems. The present invention solves this problem by receiving two incoming data streams with an outdoor unit of a satellite communications system, measuring a frequency offset from one of the two data streams using an indoor unit of a satellite communications system, generating a frequency stabilized oscillator signal and providing the frequency stabilized oscillator signal to the outdoor unit for use as a reference oscillator to uplink circuitry in the outdoor unit and downlink circuitry in the outdoor unit. This frequency stabilized oscillator signal is provided to the outdoor unit via the same communications link on which the two incoming data streams are provided.

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It is submitted that Krasner receives only one incoming satellite signal at a time. Switch 1 of Krasner is used to "select one of the two inputs to be outputted from the switch 1." (Col. 5, lines 1-2) Thus Krasner does not teach or suggest "tuning circuitry operative to tune a first satellite television signal and a second satellite television signal" as recited by the currently amended claim 1. Furthermore, Krasner does not teach or suggest "provide the frequency stabilized oscillator signal via said communications line to uplink circuitry" as recited by the currently amended claim 1. (emphasis added) Krasner teaches a system wherein a frequency reference is generated for both a RF to IF converter in a receiver and an IF to RF converter for a transmitter. The frequency corrected RF signal is then supplied to a separately located RF transmitter. Krasner does not teach or suggest supplying the oscillator signal via the same communications line used to receive the satellite television signal. This feature is essential for two way satellite communication systems as home installations of satellite television systems traditionally use a single communications link between the outdoor unit and the indoor unit. Adding an additional communications link to accommodate the frequency stabilized oscillator signal would make the system undesirable from a practical standpoint.

The examiner asserts that supplying the oscillator signal via the same communications line used to receive the satellite television signal does not appear in the claims. However, applicant asserts that claim 1 teaches "received from an outdoor unit of the satellite television ground system via a communications line" and "provide the frequency stabilized oscillator signal via said communications line to uplink circuitry and downlink circuitry of the outdoor satellite television signal unit." Since only one communications line is identified in the claim and the proper antecedent basis has been established, it is submitted that claim 1 in fact does teach that the same communications line is being used to both receive the satellite television signal and to supply the oscillator signal.

It is submitted that since none of the cited references teach or suggest "tuning circuitry operative to tune a first satellite television signal and a second satellite television signal" or "obtain carrier frequency offset data of one of the first and second satellite television signals" and "provide the frequency stabilized oscillator signal via said communications line to uplink circuitry" as recited by the currently amended claim 1. Since

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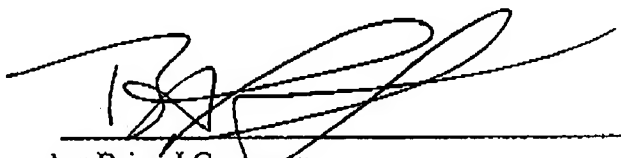
claim 1 is novel and is not anticipated by any combination of the cited prior art it is submitted that claim 1 is allowable and such action is respectfully requested.

It is further submitted that independent claims 8 and 15 are also allowable for at least the same reasons that claim 1 is allowable. Such action is respectfully requested. Since dependent claims 2-7, 9-14, and 16-18 are dependent from allowable independent claims, that they too are allowable for at least the same reasons. Such action is respectfully requested.

Having fully addressed the Examiner's rejections it is believed that, in view of the preceding amendments and remarks, this application stands in condition for allowance. Accordingly then, reconsideration and allowance are respectfully solicited. If, however, the Examiner is of the opinion that such action cannot be taken, the Examiner is invited to contact the applicant's representative at (609) 734-6804, so that a mutually convenient date and time for a telephonic interview may be scheduled.

No fee is believed due. However, if a fee is due, please charge the additional fee to Deposit Account 07-0832.

Respectfully submitted,



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